

*There is hereby established*

*the Newberry National Volcanic Monument in the State of Oregon  
as a component of the National Forest system in order to preserve  
and protect for present and future generations Newberry's remarkable  
geologic landforms - and to provide for the conservation, protection,  
interpretation, and enhancement of its ecological, botanical, scenic,  
recreational, cultural, and fish and wildlife resources.*

*(Public Law 101-522)*

CELEBRATING  
**25**  
YEARS

Paulina Peak Sunset View by Adam Jewell

## Newberry National Volcanic Monument



for the greatest good

In November 1990, Newberry National Volcanic Monument was created by the 101st Congress, and signed into law by President George H. W. Bush. Over 54,000 acres were set aside and the area was designated a national treasure. Located on the Deschutes National Forest, the Monument is defined by the Newberry Caldera at the top of Newberry Volcano and a wide swath of landscape flowing down the northwest flank of the volcano 4,000 feet to the Deschutes River. Containing the widest variety of volcanic features of any National Park or Monument, Newberry includes numerous wonders such as the Big Obsidian Flow, Lava Butte, Lava Cast Forest, Lava River Cave, Paulina Falls, Paulina Peak and two caldera lakes.

## Volcanic Wonders... Yours to Discover!

Newberry Volcano has been a special place to changing communities of people for ten thousand years. Its natural history is still being written by geologists researching and studying its numerous obsidian flows, vents, pumice cones, and hidden pockets of magma. Its cultural history is constantly being told and retold by the discovery of artifacts used for hunting and trading throughout the area. Hunters and gatherers still abound in the form of fishermen pulling kokanee, brown trout, rainbow trout, and Atlantic salmon from the two lakes found in the caldera. A new breed of explorer continues to traverse this volcanic landscape on trails that follow shorelines; cross

fields of obsidian, and climb to the caldera rim. Each winter draws adventure seekers who glide across the snow-covered terrain on cross-country skis or snowmobiles. This volcanic sleeping giant continues to command respect from those who come to visit and especially from those who want to preserve and protect this place for future generations.

Please join us in celebration of this remarkable Monument. Choose from the wide variety of organized events spanning from June 2015 to June 2016. Set out on your own or with a guide to engage with these Volcanic Wonders... Yours to Discover!



### Lights, Camera, Action!!!

**Attention filmmakers!** Whether you are an experienced movie maker or you are just getting started in video production, we need your cinematic talents to highlight the beauty and importance of Newberry National Volcanic Monument.

Discover Your Forest, a non-profit partner of Deschutes National Forest, is hosting a video contest in celebration of the Monument's 25th Anniversary. We're looking for video submissions (ideally 3-5 minutes in length) capturing beautiful images, wildlife activity, or visitors enjoying the Monument.

Filmmakers of all skill and experience levels are welcome to submit, though screening preference will go to films that are complete, have steady camera work, and are well-edited if they contain multiple shots. Videos featuring areas outside the Monument will not be considered.

Winners of each category will be honored at a short film festival in June of 2016. Submissions will be accepted through March 31, 2016.

To enter your creation please send an email to [Stacey.Cochran@discovernw.org](mailto:Stacey.Cochran@discovernw.org) and an entry form and guidelines will be emailed to you.

**Good luck, and good filming!**

### 25<sup>TH</sup> ANNIVERSARY EVENTS!

**June 19-21, 2015:**  
**Celebration Kick-Off Weekend**

**September 13, 2015:**  
**Family Fun on the Monument**

**September 19, 2015:**  
**Stars Over Newberry**

**February 20, 2016:**  
**Winter Recreation Celebration**

**June 30 - July 4, 2016:**  
**25th Anniversary Re-dedication**

More events are being held on the Monument throughout the year, see the back page for details or visit [discoveryourforest.org](http://discoveryourforest.org).

For more information about the Monument or 25th Anniversary Celebration events, stop by or call the Lava Lands Visitor Center or the Bend-Fort Rock Ranger District office.

**Lava Lands Visitor Center**  
58201 South Hwy. 97, Bend, OR 97702  
541-593-2421

**Bend-Fort Rock Ranger District**  
63095 Deschutes Market Road, Bend, OR 97701  
541-383-4000

Share your experiences and stay up-to-date with Newberry National Volcanic Monument!

#NNVM25



Scan the QR code for the Volcanic Wonders NNVM Mobile App!



# Newberry: Past to Present

Imagine what it would be like to walk this land, unsure if anyone else has ever been here. The area that is now Newberry National Volcanic Monument attracted people long before recorded history. You join a legacy of visitors when you explore Newberry National Volcanic Monument. Years from now, what kind of story will be told about your time on the Monument?



**400,000 – 1,300 Years Ago:** A series of cataclysmic geologic events created Newberry Caldera and shaped central Oregon's unique volcanic landscapes.



**1,300 Years Ago:** People began collecting and trading obsidian from Newberry flows. Projectile points, scrapers, and other tools from Newberry have been found as far away as British Columbia.



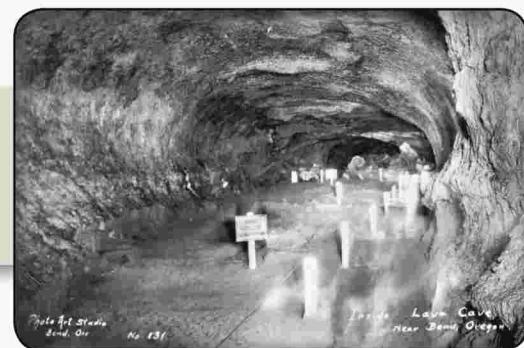
**1826:** While leading a fur trapping expedition, Peter Skene Ogden records the location of East Lake and Paulina Lake.



**1964:** Astronaut Walter Cunningham tests the mobility and durability of a space suit for the Apollo Program at Big Obsidian Flow. NASA believed the volcanic landscape would closely mimic terrain they'd encounter on the Moon.



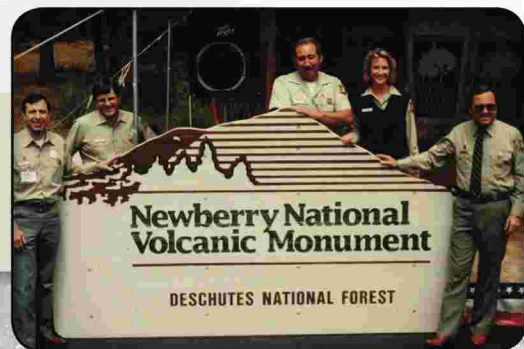
**1933:** The Civilian Conservation Corps, (CCC), constructs the Paulina Guard Station, now the Paulina Visitor Center.



**1926:** Lava River Cave becomes a State Park. Early visitors took many cave features as 'souvenirs', changing the cave forever. Deschutes National Forest received the cave in 1981.



**1975:** Lava Lands Visitor Center opens as an interpretive hub for the Deschutes National Forest. It continues to serve the same purpose for the Monument today and celebrates its 40th anniversary in 2015.

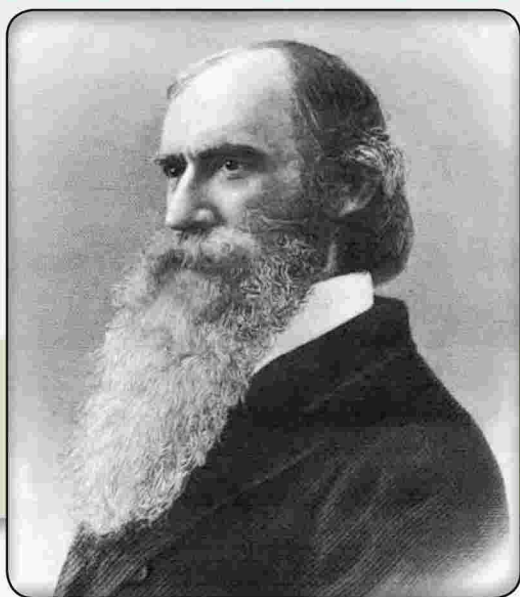


**1990:** After a unified effort from a coalition of local citizens and stakeholders, President George H. W. Bush signed legislation creating Newberry National Volcanic Monument.

## 25 Years... 25 Fun Facts!

- Newberry Volcano is the largest volcano in the cascades and covers a 1,200 square mile area with its lava flows.
- Newberry National Volcanic Monument contains the widest variety of volcanic features of any national park or monument in the U.S.
- Newberry Volcano is considered active and will certainly erupt again either passively (lava Flows) or explosively (ash and pumice).
- The slopes of Newberry Volcano are covered with more than 400 cinder cones and volcanic vents, Lava Butte being the most well known.
- Before the formation of the Caldera, Newberry's summit was 500 to 1,000 feet higher than Paulina Peak is today.
- Eruptions at Newberry Volcano have changed the course of water flowing in the Deschutes River drainage many times.
- At the point where Lava River Cave crosses beneath Highway 97 the roof of the cave is 50 feet thick.
- Newberry Volcano is considered a very high threat volcano by the USGS due to recent volcanic activity (1,300 years ago), the presence of hot springs, and the 200,000 people living in its shadow.
- The Big Obsidian Flow is the youngest lava flow in Oregon, ash from its eruption 1,300 years ago reached present day Idaho.
- Newberry Volcano is made up of ash, pumice, lava, cinder, and mudflows. It contains over 120 cubic miles of volcanic material, compared to only 6 cubic miles at Mt. St. Helens.
- The term 'crater' in the place names Newberry Crater and nearby Crater Lake is a bit of a misnomer. These volcanic features are correctly termed calderas.
- Newberry Volcano has the highest potential in the Pacific Northwest for generating geothermal electric power.





**1855:** The Monument's namesake, Dr. John Strong Newberry, studied geology and botany of the West while exploring central Oregon for the Pacific Railroad surveys.



**1866:** Chief Paulina leaves the Klamath reservation. He retreats to Newberry Caldera to evade hostile U.S. forces.



**1889:** While hunting deer, homesteader Leander Dillman discovers Lava River Cave. It was known as Dillman's Cave until 1921.



**1915:** Visitors first enjoy vacationing at East Lake Resort 100 years ago. Its present location continues as a popular summer destination today.



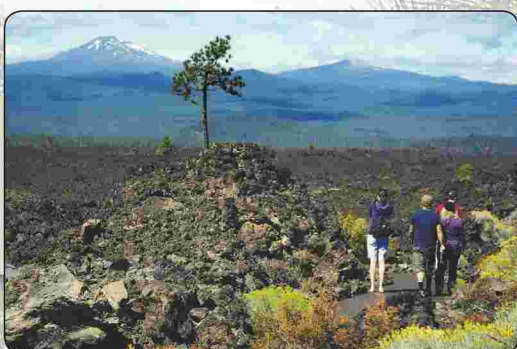
**1912:** First stocked trout were carried in milk cans to East and Paulina Lakes. Record size Kokanee and Brown Trout have been caught here in the past few decades.



**1910:** A lookout at his post on Paulina Peak. While there is no longer a lookout at Paulina Peak, Lava Butte Lookout has been staffed since 1913.



**1998:** Scientists excavate and discover remains of a pit house considered the oldest known structure in North America. Early evidence of people inhabiting today's Newberry area dates back 9,500 years.



**Today:** Hundreds of thousands of visitors from around world visit Newberry National Volcanic Monument every year. Join us in the 25th Anniversary Celebration and experience Newberry's Volcanic Wonders... Yours to Discover!

- With its 4,000-foot vertical range, the Monument has a wide range of climates and microclimates both above and below ground.
- Plants and wildlife found in Newberry Caldera display distinct adaptations. The rare Pumice Moonwort is found here and few other locations in the world.
- Newberry Caldera has been a major source of obsidian for native peoples of the western United States for the past 10,000 years.
- Surgical blades made from obsidian are sharper than those made of steel.
- There are 9 USGS monitoring stations at Newberry to detect the early and subtle signs of a reawakening volcano.

- Both caldera lakes, Paulina Lake and East Lake, have hot springs with temperatures as high as 135° Fahrenheit.
- Newberry's lava flows extend to the north under portions of Bend and extend past Smith Rock State Park.
- The state's first wildlife underpasses were constructed at Newberry in 2011 on Highway 97.
- Lava Butte rises 500 feet above Highway 97 near Lava Lands and the crater is 180 feet deep, measured from the highest point on its rim.
- Numerous attempts were made to protect Newberry as either a National Park or Monument from 1903 through the 1970s, and successfully in 1990.

- About 7,600 years ago Newberry was blanketed with up to 6 feet of Mazama ash killing all life and plants. The cataclysmic eruption of Mount Mazama created Oregon's Crater Lake and is the largest single Holocene eruption in the history of the Cascade Range.
- Newberry National Volcanic Monument is home to a state Wildlife Refuge, a designated National Natural Landmark, and three National Recreation Trails.
- The volume of rock in the Lava Butte Lava Flow is 380 million cubic yards—enough to pave a 24' wide by 6" thick road around the globe over 6 times!



# NEWBERRY NATIONAL VOLCANIC MONUMENT 25<sup>TH</sup> ANNIVERSARY CALENDAR OF EVENTS



## 25th Anniversary Kick-off Celebration

**Friday, June 19th, 6:30 – 8:30 PM**  
**SHARC in Sunriver, OR**

Join us for an evening of celebration featuring remarks by Monument creators, Congressman Peter DeFazio, and author Ellen Morris Bishop. Take in a photo exhibition featuring monumental works by local photographers, sample a limited edition Newberry-inspired beer from **Worthy Brewing**, and experience the Native American Quartz Creek Drum and Dance Group.

## Yours to Discover... Monument Day!

**Saturday, June 20th, 9:00 AM – 8:00 PM**  
**Newberry National Volcanic Monument—Wide Recreation Fee FREE Day**

The 25th Anniversary Celebration continues with speakers and activities across the Monument. Learn about and explore Newberry's Volcanic Wonders through **Earth Cache** events, book signings, guided tours, respected geologists, Jr. Ranger activities, an evening campfire program, flint knapping demonstrations and more!

## 25th Anniversary Stewardship

**Saturday, June 20th, 9:00 AM – 2:00 PM**  
**Newberry Caldera**

Share your time and passion for the Monument! Volunteer to help complete important trail and site maintenance in the Newberry Caldera. RSVP by June 15.

## 100 Year Festivities at East Lake Lodge

**Saturday, June 20th, 8:00 – 10:00 PM**  
**East Lake Resort, Newberry Caldera**

For even more anniversary excitement, head to East Lake Resort as they celebrate their 100th year of providing generations with great fishing and hospitality in the Caldera with food, beverages and more.

## Summer Recreation Celebration

**Sunday, June 21st, 9:00 AM – 5:00 PM**  
**Paulina Lake Lodge and East Lake Resort, Newberry Caldera**

Head out to Paulina Lake and East Lake lodges for special Father's day brunches and take advantage of ranger-led tours along the shores of Paulina and East Lakes. While you're at it, check out special offers on guided opportunities available throughout the Monument.

## History Pub: Making of a Monument

**Tuesday, June 30th, 6:30 – 8:00 PM**  
**McMenamin's in Bend, OR**

Dr. Stu Garrett, chairman of the original designation committee, will share insights into the journey of achieving the designation of Newberry National Volcanic Monument.

## Knowing Newberry

**Tuesday, July 7th, 6:00 – 7:00 PM**  
**Senior Center in La Pine, OR**

La Pine's location in the shadow of the Newberry Volcano takes center stage in this discussion about geology, history and what a volcanic eruption would mean for Central Oregon residents.

## Summer's End Celebration at Paulina Lake Lodge

**Saturday and Sunday, Sept. 5th and 6th, 12:00 PM**  
**Paulina Lake Lodge, Newberry Caldera**

This year's Labor Day Weekend at Paulina Lake Lodge will celebrate the 25th Anniversary of the Monument with a horseshoe contest on Saturday and a BBQ with live music on Sunday.

## 25th Anniversary Stewardship

**Saturday, September 12th, 9:00 AM – 2:00 PM**  
**Newberry Caldera**

Share your time and passion for the Monument by volunteering to help complete trail or site maintenance in the Newberry Caldera. RSVP by Sept. 7.



## Family Fun on the Monument!

**Sunday, September 13th, 10:00 AM – 2:00 PM**  
**Newberry National Volcanic Monument-Wide**

Families are invited to enjoy a day of fun-filled learning opportunities. Check out live animal demonstrations by **Sun River Nature Center** and participate in special **Jr. Ranger activities**. Adults and kids will enjoy discovering all of the Volcanic Wonders and more!

## Stars Over Newberry

**Saturday, September 19th, 7:30 – 10:30 PM**  
**Lava Butte**

Join us for an evening of star-gazing, local beer and wine, live music, food and art atop Lava Butte at Newberry National Volcanic Monument. This special after-hours celebration will support Discover Your Forest and education and stewardship in Central Oregon's Forests. **Tickets \$50**

## History Pub: Newberry Volcano's Contribution to Our Ancient Cultural Heritage

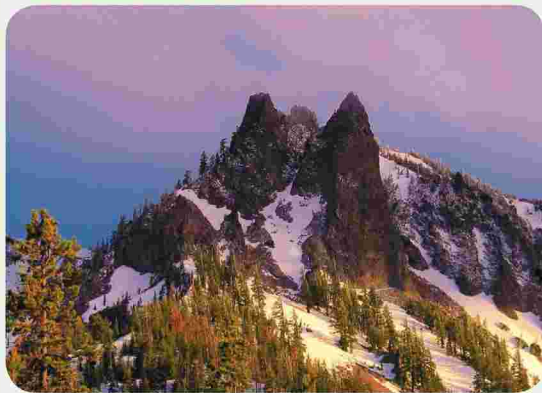
**Tuesday, October 27th, 6:30 – 8:00 PM**  
**McMenamin's in Bend, OR**

Join Dr. Tom Connolly and travel back in time to understand how Central Oregon's earliest residents were impacted by volcanic events and how this volcanic legacy has shaped our region. Hear about the discovery of one of the oldest known structures in the hemisphere that was found in the Newberry Caldera.

## Winter Recreation Celebration

**Saturday, Feb. 20th, 2016, 10:00 AM – 4:00 PM**  
**10-mile Snopark, Newberry Caldera**

Head out to Newberry Caldera to experience the Monument and its majestic winter landscapes. Take advantage of **ranger-led snowshoe tours** or check out snowmobile rentals to get you deeper into the Caldera's winter wonderland.



## 25th Anniversary Re-Dedication and Culmination of Celebrations!

**Thursday, June 30 – Monday, July 4th, 2016**  
**La Pine, OR**

We invite you to join us for the culmination of the celebrations commemorating the dedication of Newberry National Volcanic Monument... a dream come true. This **Frontier Days** celebration will begin by celebrating the Postal Service's 1st day issue of Newberry, June 30, 1991, and continue with a very special fireworks show on the 4th of July. 2016 is also the 10th anniversary of the City of La Pine, the 30th year for Frontier Days, and 100th anniversary of Deschutes County.

**Join the celebration!**



**U.S. Forest Service**  
**U.S. Department of Agriculture**



This publication was produced by **Discover Your Forest**, (a 501c3 nonprofit) in collaboration with **Deschutes National Forest**.

*Note: All events are free unless otherwise noted. Food, beverages, permits, and some guided experiences may require payment.*

## VOLCANIC WONDERS EARTHCACHE

Visitors exploring Newberry's volcanic wonders are encouraged to visit nine new EarthCache sites. EarthCache sites, similar to geocache sites, can be discovered with a GPS device on a "treasure hunt" that's fun for all ages. EarthCaches are "virtual" in that they have no physical container or log book; instead, they present a condensed geology lesson on how a feature was formed. Visitors typically log some aspect of their visit, usually answering questions, in order to claim the cache find.

To get started, get your GPS coordinates at visitor centers on the Monument.



All photographs courtesy: Karen Gentry, Scott McBride, Adam Jewell, Deschutes County Historical Society, and US Forest Service.



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